

## Diagnostic Tests for Targeting Diseases under Surveillance

#	Target disease	Test available Locally and Method	Test sent to Reference Laboratory	Screen or Confirmatory Testing	Turn Around Time	Specimen Volume/ Type	Specimen Container
1	<b>Amoebiasis</b>	Diagnostic Laboratory Services (DLS, Tamuning) Microscopy: Ova and Parasite  GPHL Past Testing Record per year = 0-3)	Ova & Parasite Test at DLS Indicate specific E. histolytica screening  DLS refer to DLS Hawaii (5 to 10 working days)	Screen (DLS: Microscopy)	2 to 4 hours on working days (Screen)  5 to 10 working days (Confirm)	2 mL Stool	Sterile Cup; Clean, leak-proof container with screw-cap lid; PVA/ Formalin Containers
2	<b>(Avian) Influenza A, B</b>	Guam Public Health Laboratory (GPHL, Mangilao) Rapid Test: BD Veritor Influenza A+B  Guam Public Health Laboratory (GPHL, Mangilao) <b>METHOD/MACHINE: Polymerase Chain Reaction (PCR) GeneXpert by CEPHEID</b>	No	Screen (GPHL: BD Veritor )  Confirmatory (GPHL: GeneXpert)	2 to 4 hours on working days (Screen)  24 to 48 hours on working days (Confirm)	Nasopharyngeal Swab	Sterile Swab; Dacron/ Nylon Swab in transport media tube
3	<b>Chikungunya (Trioplex PCR)</b>	Guam Public Health Laboratory (GPHL, Mangilao) <b>CDC Trioplex PCR test</b>  <b>METHOD/MACHINE: Polymerase Chain Reaction (PCR) ABI 7500 by LIFE TECHNOLOGIES</b>	No	Confirmatory IgM (Hawaii State Lab, CDC, Fort Collins)	24 to 48 hours on working days (GPHL)  5-10 working days (Confirm)	2 mL Serum	SST ; Serum Separator Tube
4	<b>Chlamydia (CT/NG)</b>	Guam Public Health Laboratory (GPHL, Mangilao) Method: PCR (GeneXpert)  <b>METHOD/MACHINE: Polymerase Chain Reaction (PCR) GeneXpert by CEPHEID</b>	No	Confirmatory (GPHL: GeneXpert)	24 to 48 hours on working days (Confirm)	2 mL Urine  or  Swab Discharge F: Vaginal M: Urethral	Sterile Cup; Clean, leak-proof container with screw-cap lid.  Sterile Swab Dacron/ Nylon in transport tube
5	<b>Cholera</b>	Guam Memorial Hospital Lab. (GMHA, Tamuning) Method: Culture and Sensitivity (VITEK)  GPHL Set Up in-progress: VITEK System	Guam Memorial Hospital Lab. Microbiology dept.	Confirmatory (GMH Lab: VITEK)	48 hours on day shift (Preliminary)  3-5 working days (Final)	2 mL Stool  Or  Swab	Sterile Cup; Clean, leak-proof container with screw-cap lid Or Sterile Swab
6	<b>Dengue fever</b>	Guam Public Health Laboratory (GPHL, Mangilao)  <b>Method/Machine: PCR ABI 7500 by LIFE TECHNOLOGIES</b>	No	Confirmatory (GPHL: ABI 7500)	24-48 hours on working days (Confirm)	2 mL Serum	SST; Serum Separator Tube



## Diagnostic Tests for Targeting Diseases under Surveillance

#	Target disease	Test available Locally and Method	Test sent to Reference Laboratory	Screen or Confirmatory Testing	Turn Around Time	Specimen Volume/ Type	Specimen Container
13	(Cont.) HIV	Method: HIV 1 / 2 Differentiation Assay BIORAD Geenius Reader Geenius HIV 1 / 2 Supplemental Assay		Reader PR4100)	5-10 working days		
14	<b>Influenza (Subtyping)</b>	<b>Guam Public Health Laboratory (GPHL, Mangilao)</b> Rapid Test: BD Veritor Influenza A+B  Guam Public Health Laboratory <u>METHOD/MACHINE:</u> <u>Polymerase Chain Reaction (PCR) GeneXpert by CEPHEID Xpert Xpress Flu/RSV Assay Test</u>  <b>SUBTYPING: FLU A (HI, H3, H5, H7); FLU B (YAM, VIC) PCR</b> <b>ABI 7500 by LIFE TECHNOLOGIES</b>	No	Screen (GPHL: BD Veritor)  Confirmatory (GPHL: GeneXpert)  SUBTYPING PCR <u>ABI 7500 by LIFE TECHNOLOGIES</u>	2-4 hours on working days  24-48 hours on working days	Nasopharyngeal Swab	Sterile Swab Dacron/ Nylon Swab in transport media tube
15	<b>Leptospirosis</b>	<b>Guam Public Health Laboratory (GPHL, Mangilao)</b> <b>Leptorapide Agglutination Test (one-step assay qualitative)</b>	No	Screen (GPHL: Leptorapide)	2-4 hours on working days	2 mL Serum	SST; Serum Separator Tube
16	<b>Malaria</b>	Diagnostic Laboratory Services (DLS, Tamuning) Microscopy: Malarial Smear	Confirmatory sent to Reference Laboratory: DLS refer to DLS Hawaii (5-10 working days)	Screen (DLS: Malarial Smear)	24 hours (Screen)  5-10 working days Confrm	2 Thick and Thin Blood Smear from Fingerstick. 3mL Whole Blood	2 Glass Slides, double frosted 1 Lavendar top tube
17	<b>Measles, IgM (Rubeola)</b>	<b>Guam Public Health Laboratory (GPHL, Mangilao)</b> Method: IgM only EIA <b>ThermoLab System Reader</b>	No	Surveillance purpose only Screen (GPHL: ThermoLab System Reader)	2-3 working days	2 mL Serum	SST; Serum Separator Tube
18	<b>Meningococcal disease</b>	Guam Memorial Hospital Lab. (GMHA, Tamuning) BD DirectigenMeningitis ComboTest	Guam Memorial Hospital Lab. Microbiology dept.	Confirmatory (GMH Lab)	24 hours	2 mL CSF (Cerebro-Spinal Fluid)	Clean, leak-proof container with screw-cap lid
19	<b>MERS-coV (Middle East respiratory syndrome – coronavirus)</b>	<b>No</b>  <b>Requirement: Biosafety Level 3 BSL-3 biocontainment level</b>	<b>CDC/WHO Laboratory</b>	Confirmatory (CDC/WHO)	5-10 working days	Please call Public Health before collection.	Please call Public Health before collection.
20	<b>Mumps</b>	<b>No</b>	DLS refer to DLS Hawaii (5-10 working days)	Confirmatory (DLS)	5-10 working days	2 mL Serum	SST; Serum Separator Tube
21	<b>Mycobacterium Tuberculosis (TB)</b>	<b>Guam Public Health Laboratory (GPHL, Mangilao)</b>  <b>Acid Fast Bacilli DirectSmears</b>	No	Screen Direct Smear (GPHL: AFB Smear)	24 hours on working days	2 mL Sputum	Sterile screw-cap conical tube

## Diagnostic Tests for Targeting Diseases under Surveillance

#	Target disease	Test available Locally and Method	Test sent to Reference Laboratory	Screen or Confirmatory Testing	Turn Around Time	Specimen Volume/ Type	Specimen Container
21	(Cont.) TB	(AFB Smear by Ziehl-Neelsen Technique Staining Method)  M. tuberculosis Nucleic Acid Amplification Test (NAAT) Method based on Polymerase Chain Reaction (PCR)  Validation in-progress Method/Machine: ID and Sensitivity on new machine BD MGIT 960	ID and Sensitivity: DLS refer to DLS Hawaii	Screen  Confirmatory  Confirmatory (DLS)	24-48 hours on working days  8 weeks		
22	Norovirus	No  GPHL Validation in-progress: BioFire FilmArray System (Gastrointestinal Panel)	DLS refer to DLS Hawaii (5-10 working days)	Confirmatory (DLS)	5-10 working days	2 mL Stool  Or  2mL Vomitus	Sterile Cup; Clean, leak-proof container with screw-cap lid.
23	Respiratory syncytial virus (RSV)	Guam Public Health Laboratory METHOD/MACHINE: Polymerase Chain Reaction (PCR) GeneXpert by CEPHEID Xpert Xpress Flu/RSV Assay Test	No	Confirmatory (GPHL: GeneXpert)	24-48 hours on working days	Nasopharyngeal Swab	Sterile Swab Dacron/ Nylon Swab in transport media tube
24	Rotavirus	No  GPHL Validation in-progress: BioFire FilmArray System (Gastrointestinal Panel)	DLS refer to DLS Hawaii (5-10 working days)	Confirmatory (DLS)	5-10 working days	2 mL Stool  Or  2mL Vomitus	Sterile Cup; Clean, leak-proof container with screw-cap lid.
25	Rubella, IgM (German Measles)	Guam Public Health Laboratory (GPHL, Mangilao) Method: IgM only EIA ThermoLab System Reader	No	Surveillance only; Screen (GPHL: ThermoLab System Reader)	2-3 working days	2 mL Serum	SST; Serum Separator Tube
26	Rubella, Total (IgG and IgM for Prenatal screening)	Guam Public Health Laboratory (GPHL, Mangilao) Method: IgG and IgM Sure-Vue SELECT Rubella (rapid latex particle agglutination; qualitative)	No	Confirmatory (GPHL: ThermoLab System Reader)	2-3 working days	2 mL Serum	SST; Serum Separator Tube
27	Salmonella	Guam Memorial Hospital Lab. (GMHA, Tamuning) Method: Culture and Sensitivity Salmonella Serotyping BD Difco  GPHL Set Up in-progress: VITEK System	Guam Memorial Hospital Lab. Microbiology dept.	Confirmatory (GMH Lab)	48 hours on day shift (Preliminary)  3-5 working days (Final)	2 mL Stool  Or  Swab	Sterile Cup; Clean, leak-proof container with screw-cap lid Or Sterile Swab
28	Shigella	Guam Memorial Hospital Lab. (GMHA, Tamuning) Method: Culture and Sensitivity Shigella Serotyping BD Difco  GPHL Set Up in-progress: VITEK System	Guam Memorial Hospital Lab. Microbiology dept.	Confirmatory (GMH Lab)	48 hours on day shift (Preliminary)  3-5 working days (Final)	2 mL Stool  Or  Swab	Sterile Cup; Clean, leak-proof container with screw-cap lid OR SterilSwab

## Diagnostic Tests for Targeting Diseases under Surveillance

#	Target disease	Test available Locally and Method	Test sent to Reference Laboratory	Screen or Confirmatory Testing	Turn Around Time	Specimen Volume/ Type	Specimen Container
29	<b>Syphilis</b>	<p>Guam Public Health Laboratory (GPHL, Mangilao) RPR, Quali. and Quanti. Rapid Test: Syphilis Health Check</p> <p>Method: ASI RPR Card test kit Confirmation: Serodia TPPA</p>	No	<p>Screen (GPHL: Syphilis Health Check)</p> <p>Confirmatory (GPHL: SerodiaTPPA)</p>	2-3 working days	2 mL Serum	SST; Serum Separator Tube
30	<p><b>Typhoid</b></p> <p>(Refer to Salmonella; Rule out for Salmonella typhi)</p>	<p>Guam Memorial Hospital Lab. (GMHA, Tamuning) Method: Culture and Sensitivity Salmonella Serotyping BD Difco antisera</p> <p>GPHL Set Up in-progress: VITEK System</p>	<p>Guam Memorial Hospital Lab. Microbiology dept.</p> <p>DLS refer to DLS Hawaii (5-10 working days)</p>	<p>Screen (GMH Lab)</p> <p>Confirmatory (DLS)</p>	<p>48 hours on day shift (Preliminary)</p> <p>5-10 working days (Confirm)</p>	<p>2 mL Stool</p> <p>Or</p> <p>Swab</p>	<p>Sterile Cup; Clean, leak-proof container with screw-cap lid</p> <p>Or Sterile Swab</p>
31	<b>Zika Virus (Trioplex PCR)</b>	<p>Guam Public Health Laboratory (GPHL, Mangilao)</p> <p>Method/Machine: CDC Trioplex RT-PCR Assay ABI 7500 by LIFE TECHNOLOGIES</p> <p>Discussion/Validation/Correlation studies in progress with HSLD: Chembio DPP Zika IgM System with Reader (single-use point-of-care assay; semi-quantitative)</p>	Zika MAC ELISA IgM test sent to Hawaii State Laboratory	Confirmatory IgM (Hawaii State Lab, CDC, Fort Collins)	<p>Zika RT-PCR 2-3 working days</p> <p>Zika IgM 5-10 working days</p>	<p>2 mL Serum matched with</p> <p>2 mL Urine</p>	<p>SST; Serum Separator Tube</p> <p>Urine: Sterile Cup; Clean, leak-proof container with screw-cap lid.</p>